

Fumaric acid, monoamide, N-(4-chlorophenyl)-, 2-fluorophenyl ester

Inchi: InChI=1S/C16H11ClFNO3/c17-11-5-7-12(8-6-11)19-15(20)9-10-16(21)22-14-4-2-1-3-13

InchiKey: GJZYKHSSQGUEOU-MDZDMXLPSA-N

Formula: C16H11ClFNO3

SMILES: O=C(C=CC(=O)Oc1ccccc1F)Nc1ccc(Cl)cc1

Mol. weight [g/mol]: 319.71

Physical Properties

Property code	Value	Unit	Source
gf	-110.57	kJ/mol	Joback Method
hf	-321.99	kJ/mol	Joback Method
hfus	41.46	kJ/mol	Joback Method
hvap	82.95	kJ/mol	Joback Method
log10ws	-4.51		Crippen Method
logp	3.579		Crippen Method
mvol	217.480	ml/mol	McGowan Method
pc	2426.65	kPa	Joback Method
rinpol	2919.00		NIST Webbook
rinpol	2919.00		NIST Webbook
tb	849.99	K	Joback Method
tc	1088.74	K	Joback Method
tf	548.14	K	Joback Method
vc	0.828	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	584.79	J/mol×K	849.99	Joback Method
cpg	595.42	J/mol×K	889.78	Joback Method
cpg	605.04	J/mol×K	929.57	Joback Method
cpg	613.74	J/mol×K	969.37	Joback Method
cpg	621.57	J/mol×K	1009.16	Joback Method
cpg	628.61	J/mol×K	1048.95	Joback Method
cpg	634.92	J/mol×K	1088.74	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U357481&Units=SI

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvp:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinp:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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